

IN THE CLAIMS:

Please amend the following claims:

1. (Amended) A heart prosthesis/artificial heart comprising a series of drawing and pressing means and intended to be implanted in a patient to replace the pumping activity of a heart, whereby comprises at least tow compartments [(5, 6, 12, 13, 25, 26, 27, 28)], substantially surrounded by rigid-wall provided house [(2, 3, 31)] containing a number of drawing and/or pressing devices [(10, 48, 50)], [~~characterized in that~~] wherein it comprises two halves, comprising an atrium [(25, 26)], and ventricles [(27, 28)] respectively, separated with a valve [(29, 40)] provided plate [(37)] which plate [(37)] is arranged to be able to be moved between the ventricles [(27, 28)] and the atriums [(25, 26)] by means of drawing and/or pressing devices [(48, 50)] arranged in said rigid wall provided house [(31)].
2. (Amended) A heart prosthesis according to claim 1, [~~characterized in that~~] wherein it comprises four compartment [(5, 6, 12, 13, and 25, 26, 27, 28, respectively)].
3. (Amended) A heart prosthesis according to claim 1, [~~characterized in that~~] wherein the drawing and/or pressing devices [(10, 48, 50)] are drawing and pressing electromechanical devices, respectively, including electro-magnets.
4. (Amended) A heart prosthesis according to claim 1, [~~characterized in that~~] wherein said plate [(37)] is arranged to be moved by means of electro-magnets [(48)] or a hydraulic device arranged in said wall [(31)].
5. (Amended) A heart prosthesis according to claim 1, [~~characterized in that~~] wherein the

drawing and/or pressing devices are drawing, and pressing, respectively, hydraulically activated pistons.

6. (Amended) A heart prosthesis according to claim 1, [~~characterized in that~~] wherein it is arranged to be controlled digitally via a soft-ware present in a circuit board [(22)] in a diastole, atrium systole, and systole phase, respectively.

7. (Amended) A heart prosthesis according to claim 1, [~~characterized in that~~] wherein it is supplied with energy from one or more DC batteries.